

# SUNBELT CHEMICALS -- MURIATIC ACID 20 DEGREE

## ===== Brand Names =====

### SMART MURIATIC ACID 31.5%

## ===== Product Identification =====

Product ID: HYDROCHLORIC ACID 20 DEGREE BAUME  
MSDS Date: 08/15/2004  
MSDS Number: 001.pdf

## ===== Manufactured BY =====

Company Name: Sunbelt Chemicals  
71 Hargrove Grade  
Palm Coast Florida 32137  
Info Phone Number: 386-446-4595  
Emergency Phone Number: CHEMTREC 800-424-9300

## ===== Composition/Information on Ingredients =====

Ingredient Name: HYDROGEN CHLORIDE  
CAS:7647-01-0  
Fraction by Wt: 31.5%  
OSHA PEL:C 5 PPM  
ACGIH TLV:C 5 PPM; 9091  
EPA Rpt Qty: 5000 LBS  
DOT Rpt Qty: 5000 LBS  
Ingredient Name: WATER  
CAS:7732-18-5  
Fraction by Wt: BALANCE

## ===== Hazards Identification =====

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES

Reports of Carcinogenicity: NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: CORROSIVE, ACUTE-INHALATION CAN CAUSE COUGHING, CHOKING, & INFLAMATION OF THE RESPIRATORY TRACT. SWALLOWING CAN CAUSE BURNS TO MOUTH & G.I. TRACT. EYE CONTACT CAN CAUSE SEVERE BURNS & DAMAGE. SKIN CONTACT CAN CAUSE SEVERE BURNS AND DEEP ULCERS & DISCOLOR SKIN.

CHRONIC: CONCENTRATED VAPORS MAY CAUSE EROSION OF TEETH.

Explanation of Carcinogenicity: NOT LISTED AS CARCINOGENS.

Effects of Overexposure: INFLAMATION OF THE NOSE, THROAT, UPPER RESPIRATORY TRACT, EYES, SKIN AND MUCOUS MEMBRANES. SEVERE BURNS AND DAMAGE TO TISSUES. Medical Condition Aggravated by Exposure: PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

## ===== First Aid Measures =====

First Aid: INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15

MINUTES HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. S KIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET IMMEDIATE MEDICAL ATTENTION. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Flash Point:NONE

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:MAY FORM AN EXPLOSIVE MIXTURE.COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

===== Accidental Release Measures =====

Spill Release Procedures: SMALL SPILL: FLUSH WITH WATER AND NEUTRALIZE WITH ALKALINE MATERIAL. SEWER NEUTRALIZED MATERIAL WITH EXCESS WATER. LARGE SPILL: EVACUATE AND VENTILATE AREA. IF POSSIBLE, STOP LEAK. DIKE TO RETAIN RUN OFF. NEUTRALIZE & PICK UP WITH ABSORBENT MATERIAL.

Neutralizing Agent: SODA ASH, LIME OR OTHER SUITABLE ALKALINE MATERIAL.

===== Handling and Storage =====

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE & DIRECT SUNLIGHT.

Other Precautions: DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR OR A SUPPLIED AIR FULL FACEPIECE RESPIRATOR OR AIRLINED HOOD.

Ventilation: A SYSTEM OF LOCAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE TLV.

Protective Gloves: NEOPRENE OR RUBBER GLOVES

Eye Protection: CHEMICAL SAFETY GOGGLES WITH FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. IMPERVIOUS BOOTS, APRON, OR COVERALLS AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS. PROTECT FROM MOISTURE.

===== Physical/Chemical Properties =====

HCC:C1

Boiling Pt: B.P. Text:230F,110C

Vapor Pres:28

Vapor Density: 1.2

Spec Gravity: 1.160

pH:< 2.0

Evaporation Rate & Reference:< 1.0 (N-BUTYL ACETATE)

Solubility in Water: SOLUBLE

Appearance and Odor: COLORLESS LIQUID WITH A PUNGENT ODOR.

Percent Volatiles by Volume:100.0

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES,STRONG ALKALIES, ALKALI METALS AND MOST METALS.

Stability Condition to Avoid: HIGH HEAT

Hazardous Decomposition Products: WHEN HEATED TO DECOMPOSITON, EMITS TOXIC HYDROGEN CHLORIDE FUMES. WILL REACT WITH WATER TO PRODUCE HEAT AND TOXIC FUMES.

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. DISPOSE IN A RCRAAPPROVED WASTE FACILITY OR SEWER THE NEURTALIZED SLURRY WITH EXCESS WATER IF LOCAL ORDINANCES ALLOW.

===== DOT SHIPPING INFORMATION =====

PROPER SHIPPING NAME: 0.3 gallons or less (1 Liter)

ORM-D, Consumer Commodity

PROPER SHIPPING NAME: Quantity greater than 0.3 gallons

Hydrochloric Acid, 3, UN1789, PGII

===== USER RESPONSIBILITY =====

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